## INTERNATIONAL SEARCH REPORT

Inter vional Application No

•		PCT/S	JP2004/012223		
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C21D1/76 C23C2/06 C21D8/C	14			
B. FIELDS	o International Patent Classification (IPC) or to both national classif SEARCHED ocumentation searched (classification system followed by classification C21D C23C				
Documental	tion searched other than minimum documentation to the extent that	such documents are included in the	e fields searched		
	lata base consulted during the international search (name of data b	pase and, where practical, search ter	rms uśed)		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document, with indication, where appropriate, of the r	elevant passages	Relevant to claim No.		
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) & JP 2001 279412 A (NIPPON STEEL 10 October 2001 (2001-10-10) abstract	. CORP),	1,4		
Α	PATENT ABSTRACTS OF JAPAN vol. 0041, no. 35 (C-025), 20 September 1980 (1980-09-20) & JP 55 085622 A (NIPPON KOKAN k others: 01), 27 June 1980 (1980- abstract	1			
А	US 2003/047255 A1 (DELAUNAY DIDI 13 March 2003 (2003-03-13) paragraphs '0009!, '0010!, '00 '0024! - '0027!	•	1		
X Furl	ther documents are listed in the continuation of box C.	X Patent family members a	re listed in annex.		
*A* docume consider filing of the color of t	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority ctairn(s) or is cited to establish the publication date of another on or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	or priorily date and not in corcited to understand the princinvention  'X' document of particular relevancannot be considered novel of involve an inventive step whe  'Y' document of particular relevancannot be considered to invo document is combined with of ments, such combination being in the art.	(* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled		
	actual completion of the international search  4 December 2004	Date of mailing of the internal	ional search report		
Name and	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Lilimpakis, E	· .		

Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

Intermional Application No PCT/JP2004/012223

		PCT/JP2004/012223		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.		
А	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) & JP 2000 290730 A (KAWASAKI STEEL CORP), 17 October 2000 (2000-10-17) abstract	1,4		
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 03, 3 April 2002 (2002-04-03) & JP 2001 323355 A (NIPPON STEEL CORP), 22 November 2001 (2001-11-22) cited in the application abstract			
	·			

## INTERNATIONAL SEARCH REPORT

Intermonal Application No					
PCT/	JP2004/012223				

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 2001279412	Α	10-10-2001	NONE		<del></del>
JP 55085622	Α	27-06-1980	JP	59017169 B	19-04-1984
US 2003047255	A1	13-03-2003	FR BR DE EP ES JP	2828888 A1 0203383 A 1285972 T1 1285972 A1 2188434 T1 2003183799 A	28-02-2003 20-05-2003 18-09-2003 26-02-2003 01-07-2003 03-07-2003
JP 2000290730	Α	17-10-2000	NONE		
JP 2001323355	Α	22-11-2001	NONE		